

Title (en)

Method and apparatus for bit timing acquisition in a direct sequence spread spectrum receiver

Title (de)

Bittakterfassungsverfahren und -anordnung für Direktsequenzspreizspektrumempfänger

Title (fr)

Méthode et dispositif d'acquisition du signal binaire d'horloge dans un récepteur à spectre étalé par séquence directe

Publication

**EP 0757458 A3 20000105 (EN)**

Application

**EP 96305590 A 19960730**

Priority

US 50958895 A 19950731

Abstract (en)

[origin: EP0757458A2] In a direct sequence spread spectrum receiver, an apparatus for obtaining and adjusting bit synchronization. In one aspect, the bit synchronization is adjusted by selectively inverting a clocking circuit to delay sampling by one-half a clock cycle and to combine the inversion with a skipping of one cycle to advance the sampling by one-half cycle. In another aspect of the invention, the synchronization circuit avoids overflow of accumulating components by downshifting both the partial sums and the input data when needed. <IMAGE>

IPC 1-7

**H04L 7/033**; **H04J 13/00**; **H04L 7/04**

IPC 8 full level

**H04L 25/40** (2006.01); **H04L 7/02** (2006.01); **H04L 7/08** (2006.01)

CPC (source: EP KR US)

**H03L 7/00** (2013.01 - KR); **H04B 1/70755** (2013.01 - EP US); **H04L 7/0054** (2013.01 - EP US); **H04B 2201/70707** (2013.01 - EP US)

Citation (search report)

- [Y] US 5199050 A 19930330 - LINSKY STUART T [US]
- [Y] EP 0455038 A2 19911106 - NAT SEMICONDUCTOR CORP [US]
- [A] US 4653076 A 19870324 - JERRIM JOHN W [US], et al
- [A] US 5280501 A 19940118 - OWEN JEFFREY R [US]
- [X] WO 8503176 A1 19850718 - MOTOROLA INC [US]
- [X] US 5140617 A 19920818 - KUBO HIROSHI [JP]
- [A] GB 2276797 A 19941005 - NORTHERN TELECOM LTD [CA]

Cited by

CN1319310C; EP1703660A1; EP1703661A1; EP1755254A1; EP1755255A1; US6314148B1; US7706491B2; WO0035140A1; US7602871B2; US7248624B2; US6904104B1; WO2005048521A1; WO0120841A1

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